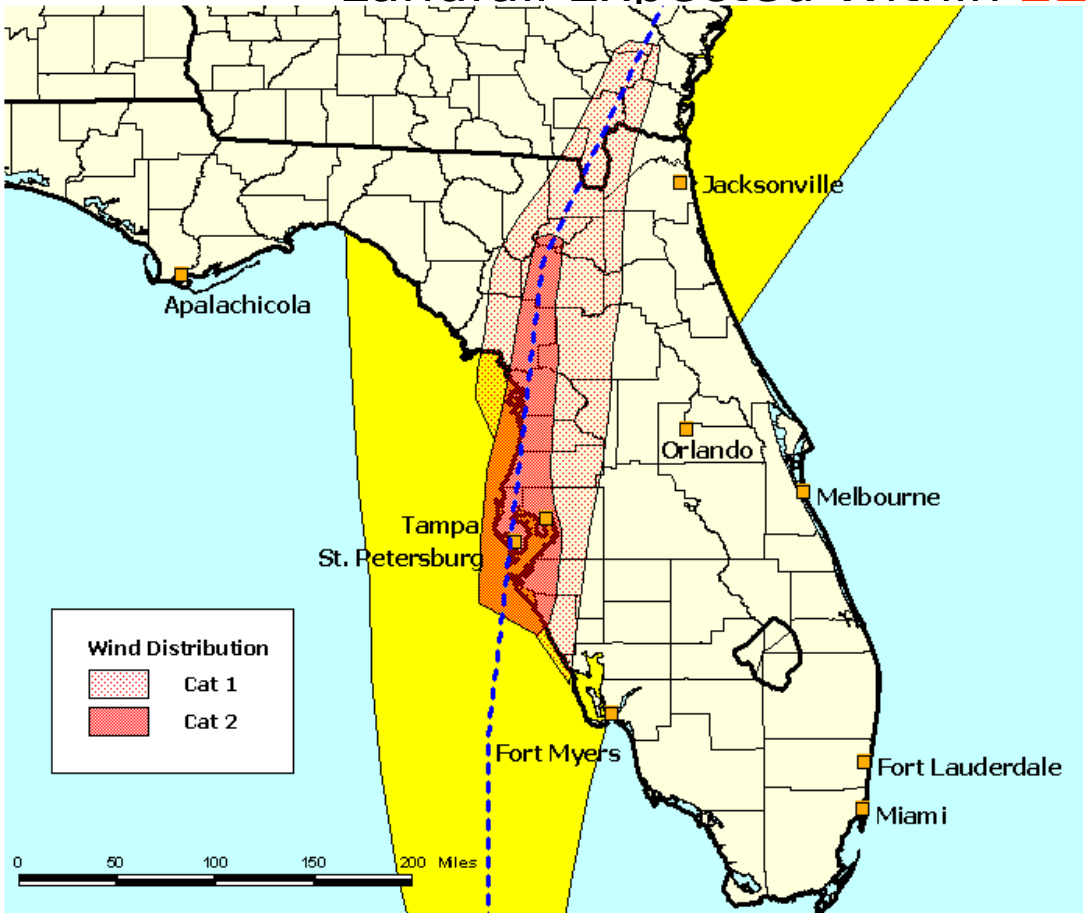
Hurricane Charley Wind Distribution

Landfall Expected Within *12* Hours

For Official Use Only!



Most Probable Landfall Wind Distribution

This hurricane scenario is based on a HIGH Category 2 storm making landfall in near proximity to Saint Petersburg, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 08/13/2004)*** forecast.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Wind Distribution

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

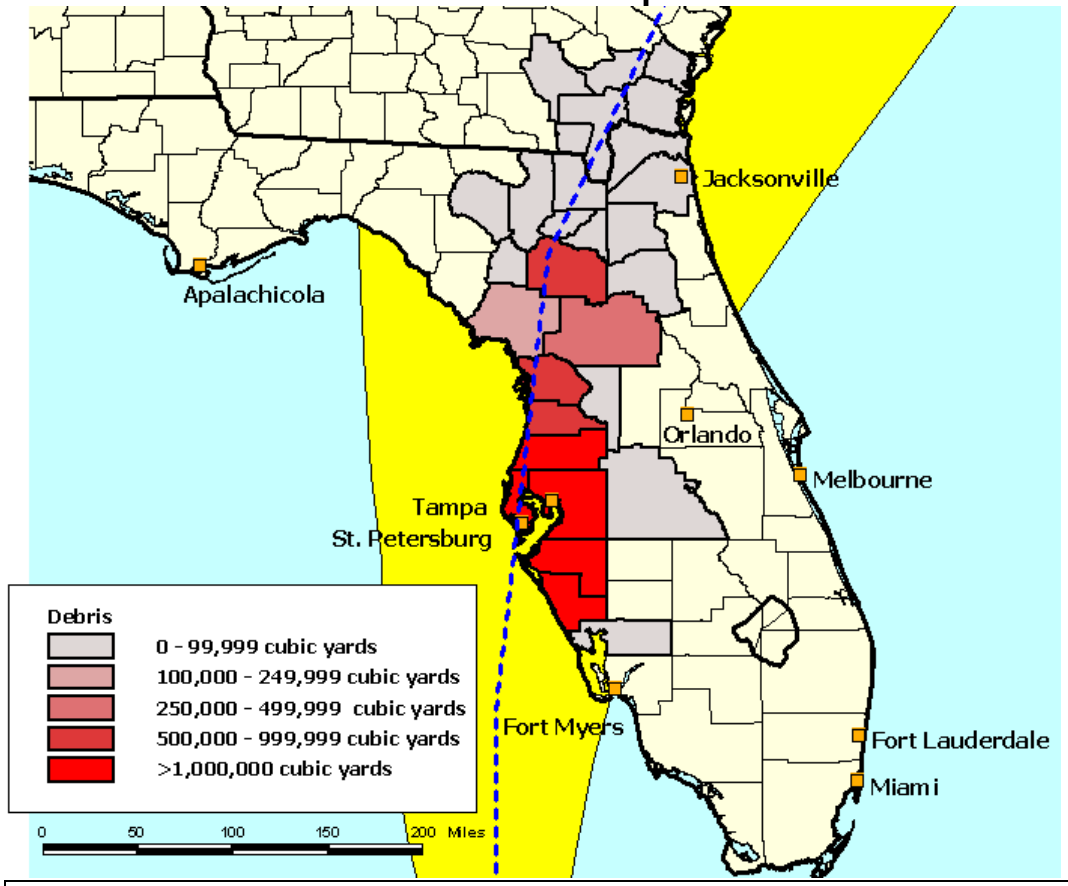
Generated By:
Terry Siemsen

Generated Date:
0600 EDT
08/13/2004

Hurricane Charley Debris Model

Landfall Expected Within *12* Hours

For Official Use Only!



Most Probable Landfall Debris Model Results

Florida – 24,770,000 yd^3
Georgia – 21,000 yd3
Model results per county on following page

This hurricane scenario is based on a HIGH Category 2 storm making landfall in near proximity to Saint Petersburg, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 08/13/2004)*** forecast.

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Debris Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
0600 EDT
08/13/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Charley Debris Model

Landfall Expected Within *12* Hours

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State	Yards per State	County	Yards per County
Florida	24,770,000		
		Alachua	910,000
		Baker	31,000
		Bradford	39,000
		Charlotte	32,000
		Citrus	680,000
		Clay	33,000
		Columbia	50,000
		Duval	10,000
		Gilchrist	16,000
		Hernando	842,000
		Hillsborough	5,867,000
		Levy	150,000
		Manatee	2,169,000
		Marion	435,000
		Nassau	23,000
		Pasco	2,307,000
		Pinellas	8,929,000
		Polk	2,000
		Putnam	15,000
		Sarasota	2,155,000
		Sumter	51,000
		Suwannee	> 1,000
		Union	28,000

State	Yards per State	County	Yards per County
Georgia	21,000		
		Brantley	2,000
		Camden	8,000
		Charlton	10,000
		Glynn	> 1,000
		Ware	2,000

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Debris Model

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

Generated By:
Terry Siemsen

Generated Date:
0600 EDT
08/13/2004

Hurricane Charley Ice Model

Landfall Expected Within *12* Hours

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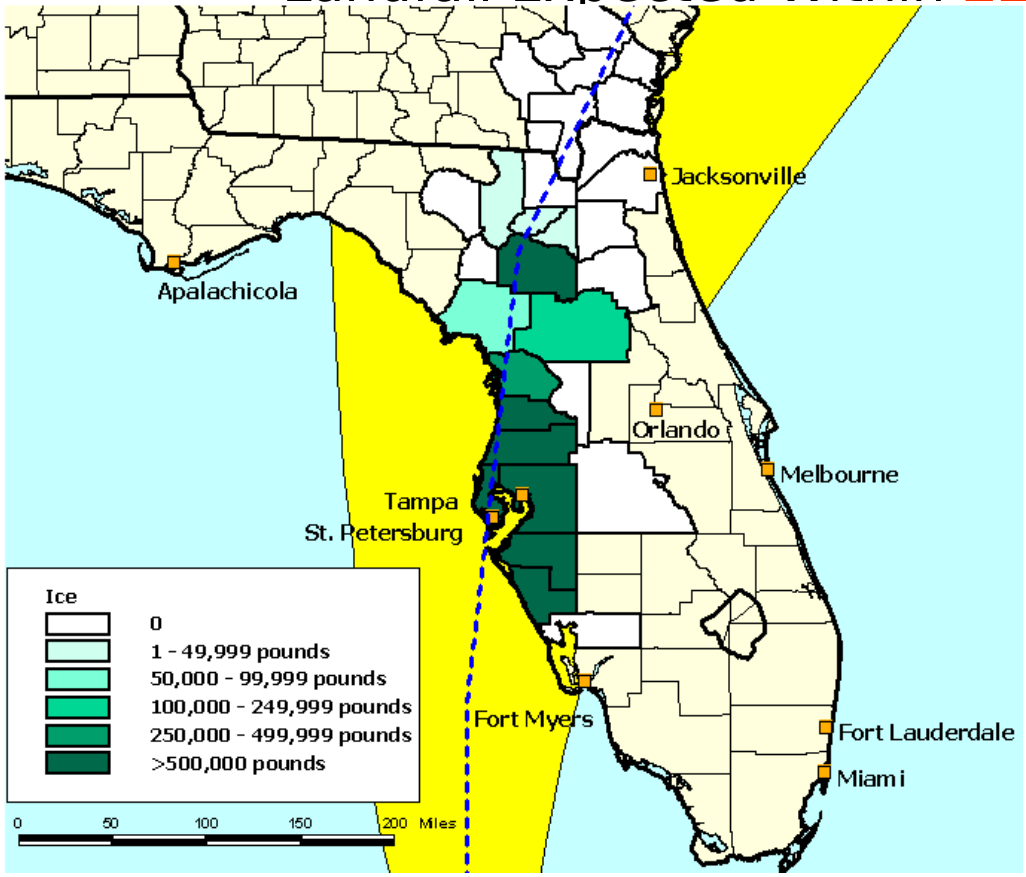

Most Probable Landfall Ice Model Results

Florida – 11,684,000 pounds

Model results per county on following page

This hurricane scenario is based on a HIGH Category 2 storm making landfall in near proximity to Saint Petersburg, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 08/13/2004)*** forecast. The intensity of this hurricane has been altered to complete model runs.

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per day per person) and Ice SME input and represents a first day daily need.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Ice Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0600 EDT
08/13/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Charley Ice Model

Landfall Expected Within *12* Hours

For Official Use Only!

State	Pounds per State	County	Pounds per County
Florida	11,684,000		
		Alachua	833,000
		Bradford	28,000
		Citrus	455,000
		Columbia	1,000
		Hernando	501,000
		Hillsborough	2,760,000
		Levy	94,000
		Manatee	1,006,000
		Marion	226,000
		Pasco	1,089,000
		Pinellas	3,626,000
		Sarasota	1,053,000
		Union	13,000

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per person) and Ice SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Isabel will have power outage in this area will cause a need for ice.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Ice Model

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

Generated By:
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Generated Date
0600 EDT
08/13/2004

Hurricane Charley Water Model

Landfall Expected Within *12* Hours

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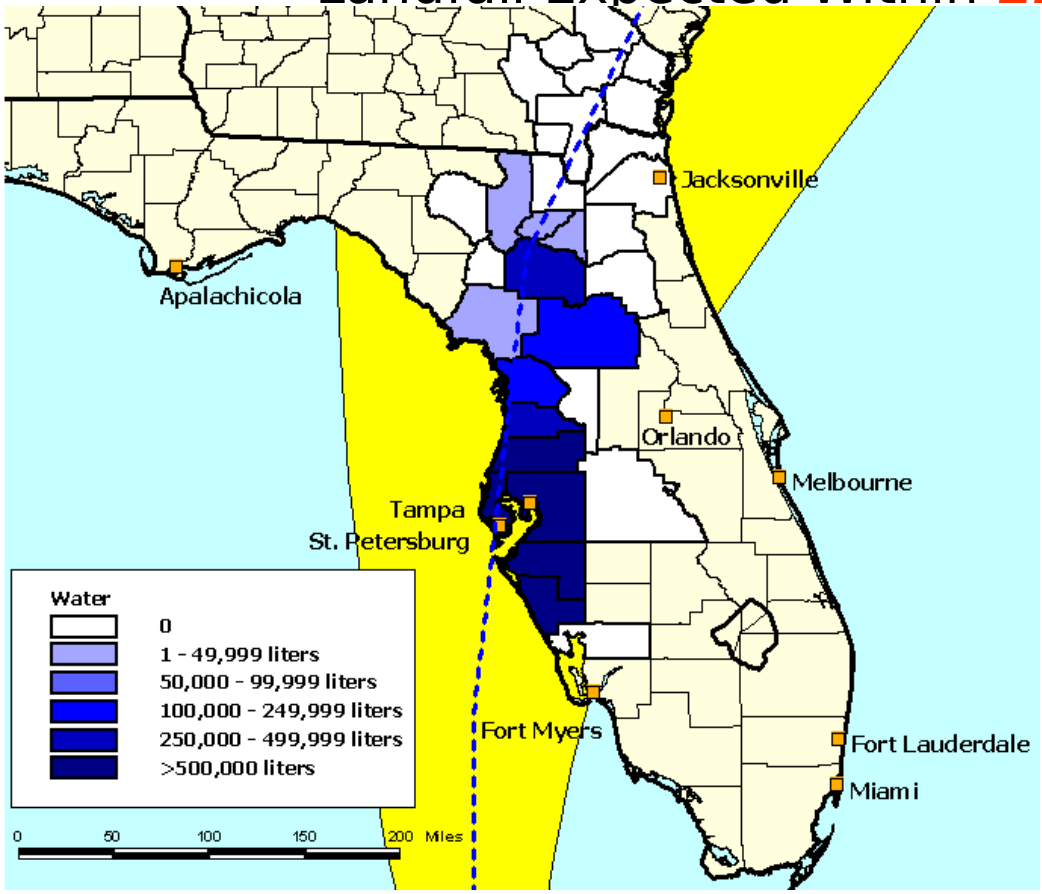


Most Probable Landfall Water Model Results

Florida – 5,842,000 liters

Model results per county on following page

This hurricane scenario is based on a HIGH Category 2 storm making landfall in near proximity to Saint Petersburg, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 08/13/2004)*** forecast.

The amount of water forecasted is based on Mission Guide Book requirements (4 liters per person per day) and Water SME input and represents a first day daily need.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Water Model

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

Generated By:
Terry Siemsen

Generated Date
0600 EDT
08/13/2004

Hurricane Charley Water Model

Landfall Expected Within *12* Hours

For Official Use Only!

State	Liters per State	County	Liters per County
Florida	5,842,000		
		Alachua	417,000
		Bradford	14,000
		Citrus	227,000
		Columbia	1,000
		Hernando	251,000
		Hillsborough	1,380,000
		Levy	47,000
		Manatee	503,000
		Marion	113,000
		Pasco	544,000
		Pinellas	1,813,000
		Sarasota	526,000
		Union	6,000

The amount of water forecasted is based on Mission Guide Book requirements (4 liters per person) and Water SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Charley will have power outage in this area will cause a need for water.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Water Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0600 EDT
08/13/2004

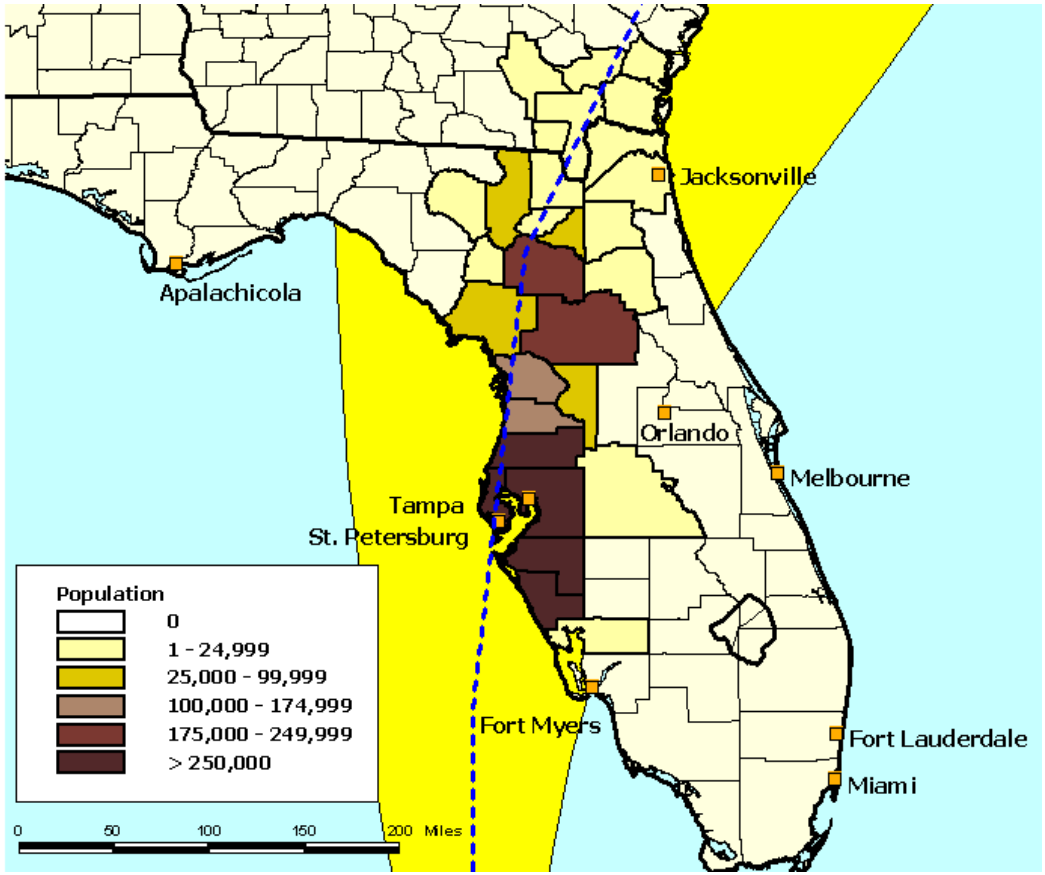
CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Charley Population Model

Landfall Expected Within *12* Hours

For Official Use Only!



Most Probable Landfall Population Model Results

Florida – 3,698,000 persons
Georgia – 15,000 persons

Model results per county on following page

This hurricane scenario is based on a HIGH Category 2 storm making landfall in near proximity to Saint Petersburg, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 08/13/2004)*** forecast.

The number of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Population Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
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Generated Date
0600 EDT
08/13/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Charley Population Model

Landfall Expected Within *12* Hours

For Official Use Only!

State	Population per State	County	Population
Florida	3,698,000		
		Alachua	218,000
		Baker	22,000
		Bradford	26,000
		Charlotte	15,000
		Citrus	118,000
		Clay	23,000
		Columbia	30,000
		Duval	7,000
		Gilchrist	11,000
		Hernando	131,000
		Hillsborough	972,000
		Levy	29,000
		Manatee	255,000
		Marion	217,000
		Nassau	14,000
		Pasco	344,000
		Pinellas	906,000
		Polk	1,000
		Putnam	9,000
		Sarasota	302,000
		Sumter	35,000
		Suwannee	> 1,000
		Union	13,000

State	Population per State	County	Population
Georgia	15,000		
		Brantley	2,000
		Camden	5,000
		Charlton	7,000
		Glynn	> 1,000
		Ware	1,000

The number of persons estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Population Model

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

Louisville Operations Division GIS

Generated By:
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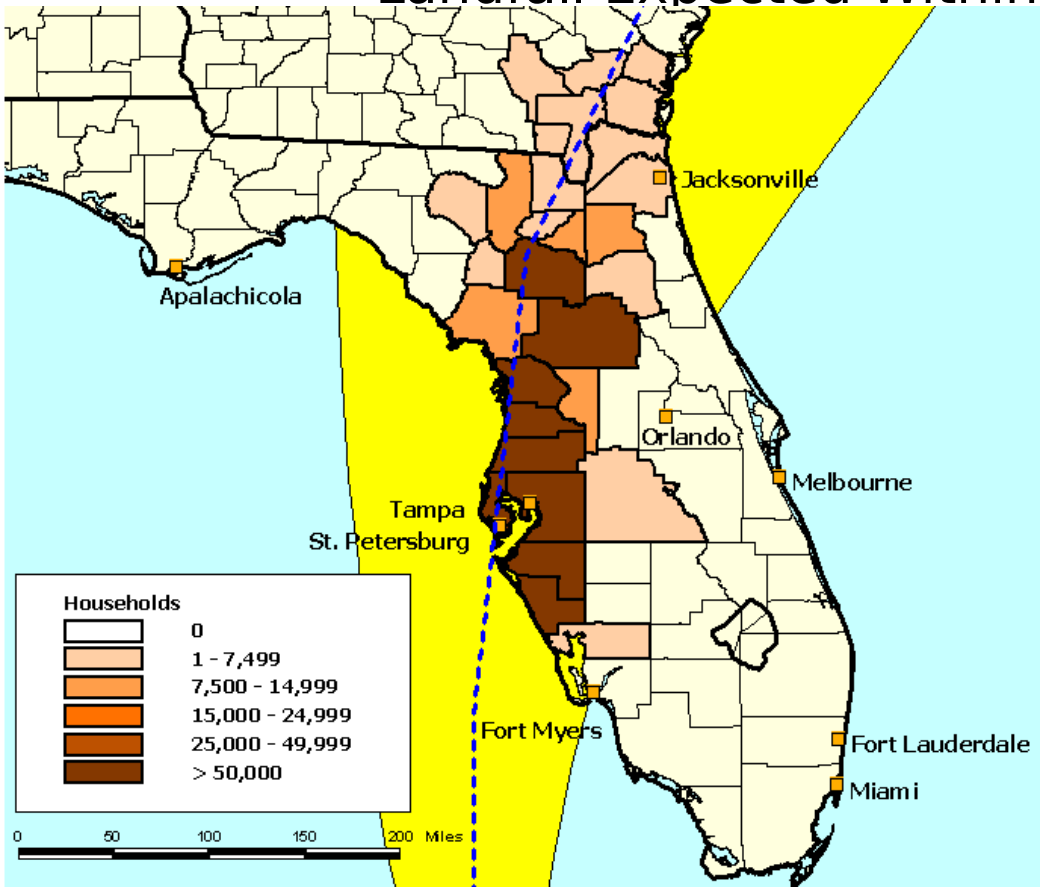
Generated Date
0600 EDT
08/13/2004

Hurricane Charley Households Model

Landfall Expected Within *12* Hours

For Official Use Only!



Most Probable Landfall Households Model Results

Florida – 1,555,000 households
Georgia – 5,000 households
Model results per county on following page

This hurricane scenario is based on a HIGH Category 2 storm making landfall in near proximity to Saint Petersburg, LA

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 08/13/2004)*** forecast.

The number of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Households Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0600 EDT
08/13/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Charley Households Model

Landfall Expected Within *12* Hours

For Official Use Only!

State	Households per State	County	Households
Florida	1,555,000		
		Alachua	87,000
		Baker	7,000
		Bradford	8,000
		Charlotte	7,000
		Citrus	53,000
		Clay	8,000
		Columbia	12,000
		Duval	2,000
		Gilchrist	4,000
		Hernando	55,000
		Hillsborough	382,000
		Levy	12,000
		Manatee	109,000
		Marion	89,000
		Nassau	5,000
		Pasco	147,000
		Pinellas	407,000
		Polk	1,000
		Putnam	4,000
		Sarasota	140,000
		Sumter	13,000
		Suwannee	> 1,000
		Union	3,000

State	Households per State	County	Households
Georgia	5,000		5,396
		Brantley	> 1,000
		Camden	2,000
		Charlton	2,000
		Glynn	> 1,000
		Ware	> 1,000

The number of households estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Households Model

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Louisville Operations Division GIS